

Indice

- Offerta Double Degree Laurea Magistrale in Ingegneria Gestionale
- Offerta Double Degree Laurea Magistrale in Ingegneria Meccanica con il New Jersey Institute of Technology

Offerta Double Degree

Corso di Studio
Laurea Magistrale in Ingegneria
Gestionale LM-31

DMMM – Politecnico di Bari

Elenco DD attivi a.a. 2019-20/2020-21

New Jersey Institute of Technology – USA

- Engineering Management MSc

Illinois Institute of Technology – USA

- M.S. in Environmental Mgt & Sustainability
- M.S. in Finance

Cranfield University – UK

School of Engineering

- Engineering and Management of Manufacturing System MSc
- Management and Information Systems MSc

School of Management

- Management MSc
- Logistics and Supply Chain Mgt MSc
- Procurement and Supply Chain Mgt MSc

NJIT

New Jersey Institute
of Technology



**20
Minutes**
from
New York City

Top 1%
for Return
on Investment
- *PayScale.com*

17:1
student
to faculty
ratio

11,400+
students

128+
Degree
Programs &
Majors

70 Research Centers & Labs

Awards and Recognition

TOP 10% NATIONALLY FOR RETURN ON INVESTMENT (*BLOOMBERG BUSINESSWEEK*)

#97 NATIONAL RANKING (*U.S. NEWS & WORLD REPORT*)

329 THE US UNIVERSITY RANKING
(TIMES HIGHER EDUCATION UNIVERSITY RANKING)

COMPUTER SCIENCE PROGRAM #2 IN THE WORLD
(*CENTER FOR WORLD UNIVERSITY RANKINGS*)

TOP GRADUATE SCHOOL OF ENGINEERING
(*U.S. NEWS & WORLD REPORT*)

**TOP 50 AMONG COLLEGES WITHOUT A MEDICAL SCHOOL FOR
RESEARCH EXPENDITURES AND TOP 10 AMONG UNIVERSITIES
WHOSE MAIN RESEARCH IS IN ENGINEERING**
(*NATIONAL SCIENCE FOUNDATION*)

Main features

- State-of-the-art facilities on a 45-acre campus in Newark, New Jersey
- Research expenditures exceeding \$110 million
- Over 2500 international students
- Easy access to New York City via public transportation



New to NJIT

- Wellness and Events Center
 - \$100 million multipurpose athletic facility. The key component is an arena seating 3,500 fans for the institute's highest-profile sport, men's college basketball.



Great Location



Newark College of Engineering



- Biomedical Engineering (M.S. & Ph.D.)
- Chemical Engineering (M.S. & Ph.D.)
- Civil Engineering (M.S. & Ph.D.)
- Computer Engineering (M.S. & Ph.D.)
- Critical Infrastructure Systems (M.S.)
- Electrical Engineering (M.S. & Ph.D.)
- Engineering Management (M.S.)
- Environmental Engineering (M.S. & Ph.D.)
- Healthcare Systems Management (M.S.)
- Industrial Engineering (M.S. & Ph.D.)
- Internet Engineering (M.S.)
- Manufacturing Engineering (M.S.)
- Mechanical Engineering (M.S. & Ph.D.)
- Occupational Safety & Health (M.S.)
- Pharmaceutical Engineering (M.S.)
- Pharmaceutical Systems Management (M.S.)
- Power & Energy Systems (M.S.)
- Telecommunications (M.S.)
- Transportation Engineering (M.S. & Ph.D.)

Employers of NJIT Graduates



AT&T

Broadcom



Cisco Systems, Inc.

Colgate-Palmolive



Forbes

Forbes.com

IBM



L'ORÉAL
USA

L'Oreal USA

NJTransit



QUALCOMM®

Qualcomm

Schneider Electric



stryker®

Stryker Orthopedics

TATA Consultancy Services



UBS Financial Services, Inc.

Double Degree Structure

- **Poliba (78 ECTS)**
 - Lectures (72 ECTS)
 - English II (3 ECTS)
 - Master thesis (6 ECTS)
- **NJIT (42 ECTS) (+ 18 ECTS double counted)**
 - 1° semester
 - 5 courses (3 credits each) + master project (3 credits)
 - 2° semester at Poliba
 - 1 on-line course (3 credits) + master project (3 credits)
 - or 2° semester at NJIT
 - 1 course (3 credits) + master project (3 credits)

Requirements

- **Admission requirements**

- Enrollment in M. Sc. Management Engineering
- **At least 18 ECTS at the time of application and 48 ECTS before the departure to the US**
- Language certificate: at least B2 level
- VISA

- **Learning agreement**

- The student must prepare a plan of didactic activity (learning agreement), using the ERASMUS+ learning agreement format
- It must be coordinated with the program coordinator and approved by the DMMM Board

PoliBa Course	NJIT Course Equivalent
Assembly and Disassembly Processes	MNE 654. Design for Manufacturability
Continuous Improvement of Sustainable Manufacturing	IE 673. Total Quality Management (core course)
E-Business Models and Business Intelligence	MRKT 645. Internet Marketing Strategy
Information Systems	MIS 645. Information Systems Principles (core course)
Lean Production and Supply Chain Management	IE 659. Supply Chain Engineering
Management Accounting	ACCT 615. Management Accounting (core course)
Strategy and Organization	HRM 601. Organizational Behavior (core course)
Supply Chain Management	IE 659. Supply Chain Engineering
Systems Analysis and Simulation	IE 621. Systems Analysis and Simulation
Finance and Business Planning	FIN 610. Global Macro Economics
Industrial Logistics	EM 640. Distribution Logistics
Innovation Economics and Management	MGMT 620. Management of Technology
Operations Management	EM 602. Management Science (core course)

Transcript of records

- **Transcript of records**

- At the end of the period NJIT provides a transcript of records to certify the student credits
- 3 courses (6 ECTS each) at the Politecnico di Bari will be transferred with 9 Credits to NJIT

- **Grading System**

NJIT grade	Significance	Points	Poliba grade
A = 4.0	Excellent	93-100	30 – 30 e lode
B+ = 3.5	Good	84-92	27-29
B = 3.0	Acceptable	76-83	24-26
C+ = 2.5	Marginal Performance	68-75	21-23
C = 2.0	Minimum Performance	60-67	18-20

Tuition and costs

- **Tuition and fees**
 - US \$ 16.000 (full-time student)
- **Additional costs:**
 - lodging/housing (on-campus to the extent available, or off-campus)
 - food (on-campus meal plans or food allowance)
 - health insurance fees
 - transportation;
 - use of refectories and canteens;
 - purchase of textbooks and other instructional materials and study aids

On - Campus Housing Options

Almost 2,000 students, and nearly 50 percent of first-year students, live on NJIT's campus in 13 residence communities.

All residence rooms are fully furnished, air-conditioned, wireless and wired for Internet and cable TV. Each residence community has common areas and facilities including: study space, community kitchens, laundry rooms, recreational game rooms & lounges, and snack and beverage machines.



Applications and Contacts

Academic Program coordinators

- Prof. Ilaria Giannoccaro, DMMM, PoliBa
- Prof. Layek Abdel Malek, Department of Mechanical and Industrial Engineering, NJIT

Applications

- Autumn: End of May
- Spring: Third week of October



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ILLINOIS INSTITUTE OF TECHNOLOGY





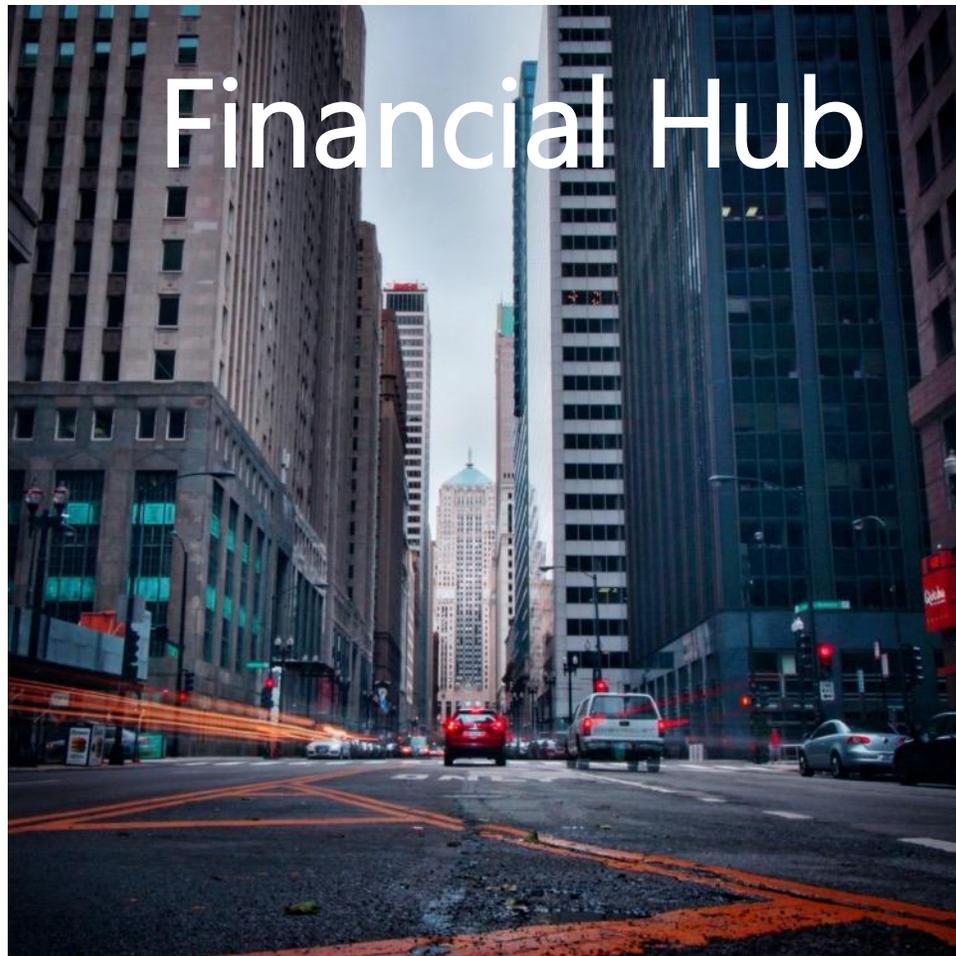
- ❖ Dynamic city of 3 million people
- ❖ Metropolitan area of 10 million people
- ❖ The birthplace of the skyscraper and of “modern” architecture
- ❖ The style known as modern architecture was born at the Illinois Institute of Technology



Stuart School of Business

ILLINOIS INSTITUTE OF TECHNOLOGY

Financial Hub

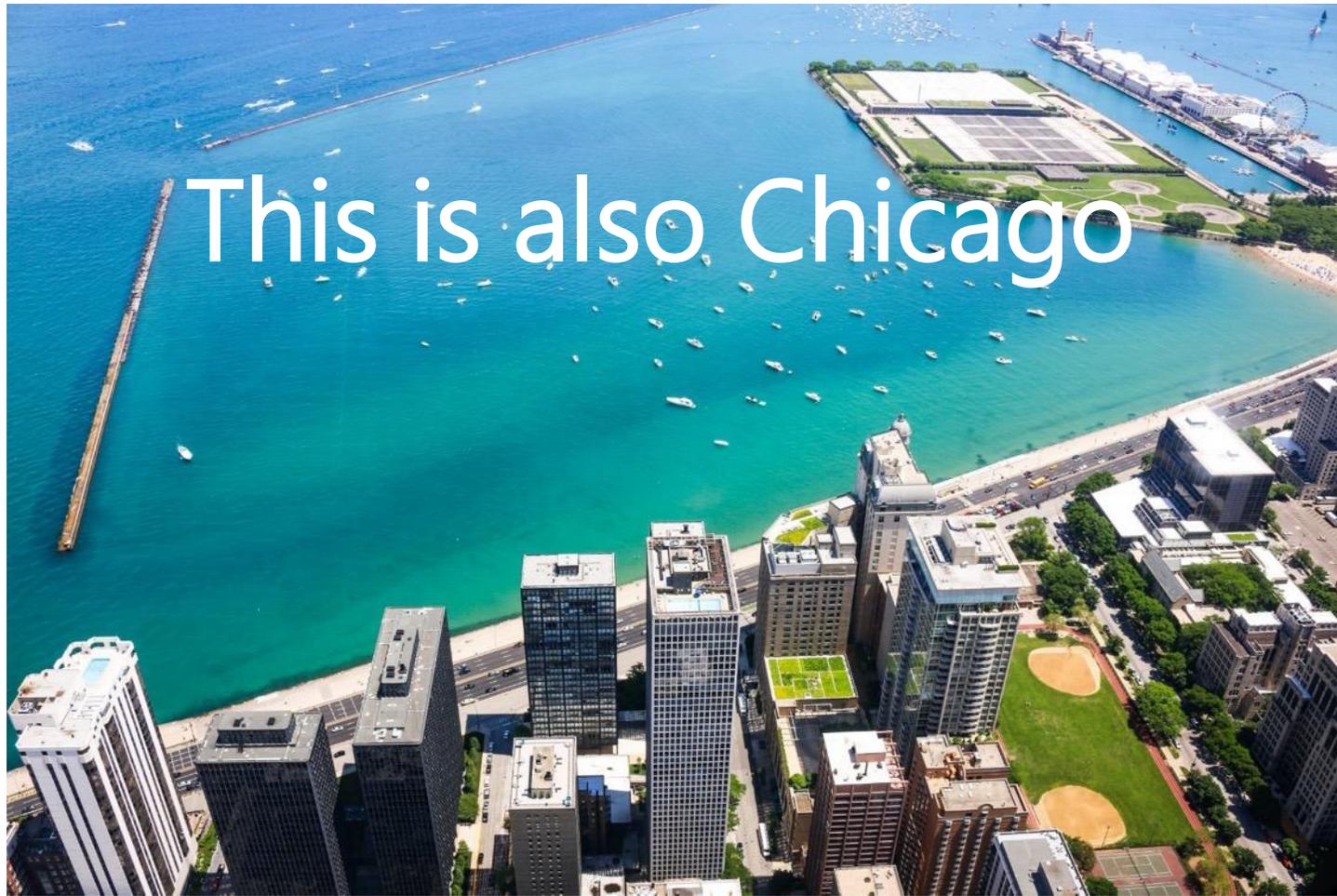


- ❖ A world leader in derivatives markets, high frequency trading
- ❖ Home to many leading companies, including (but not limited to) insurance, technology, and agri-business
- ❖ Chicago is the birthplace of organized options trading, and modern futures contracts



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❖ Tranquil Lake front beaches, miles of bike trails, and beautiful parks



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ILLINOIS INSTITUTE OF TECHNOLOGY



This is Illinois Tech

- ❖ Mid-sized, private, tier 1 research university
- ❖ The main campus is a tribute to the father of modern architecture (Mies van der Rohe, former faculty member)
- ❖ Three train lines run through campus, connecting it to all parts of the city



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- ❖ The Business and Law School are right **downtown** in their own building less than ½ mile (1 km) from the Financial District and about 3 miles (5 km) from the main campus. ***Classes will be held at this location.***
- ❖ Classes run from 6:00pm to 8:30pm
- ❖ Leaving the day free for you to pursue internships, business networking, or catching up on study in the library pictured here.



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ILLINOIS INSTITUTE OF TECHNOLOGY

Academic Departments @ Illinois Tech

Stuart School of Business

Armour College of Engineering

Chicago-Kent College of Law

College of Science

College of Architecture

Institute of Design

Lewis College of Human Sciences

School of Applied Technology



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M.S. in Environmental Management & Sustainability Program

- The EMS. program integrates law, science and business to answer the increasing demand for management professionals capable of leading in this sector by collaborating with scientists and engineers to find environmentally-conscious business solutions.
- Graduates work in environmental sustainability and compliance management as consultants, analysts, entrepreneurs, and professionals who can successfully make the business case for sustainability.
- The EMS program is a **STEM designated program**



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M.S. in Finance Program

- The M.S. in Finance program builds on a solid foundation in financial mathematics, statistics, and modeling to prepare students for specialized careers in the financial services industry.
- Students benefit from Chicago's status as a leading financial center.
- Courses are taught by industry experts who bring their career knowledge and understanding of today's marketplace directly to the classroom.
- Partnerships with alumni and other professionals in the industry give students numerous opportunities to work on real-world projects and gain valuable professional experience.
- **Ranked 5th** in the U.S. and **42nd globally** by *Financial Times* (2018)
- **Ranked 22nd** in the U.S. in Finance programs by *TFE Times* (2018)



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STUART CAREER MANAGEMENT CENTER (CMC)

Services offered by Stuart CMC to students

- Open advising hours and advising appointments
- Career Pathways and Company Visits
- Resume guide, cover letter guide, and interviewing guide
- Career Assessment tools
- Curricular Practical Training (CPT), internship, and coop information

Admission Standards for Dual Degree Programs

- Completion of core graduate program courses at the PoliBa;
- A 3.0 Grade Point Average equivalent to a minimum score of 24 at PoliBa
- 2 letters of recommendation;
- Resume;
- Financial support form;
- Copy of passport identity page;
- Certified transcripts in English and Italian of the first semester of the first year of study at PoliBa;
- Certified proof of the Bachelor's degree equivalent in English; and
- A short professional statement.



Admission Standards for Dual Degree Programs

Test Scores for Master of Environmental Management and Sustainability Program.

- GMAT score of 500 or a GRE score of 298.
- An internet based TOEFL score of 85, a paper based TOEFL score of 600 or an IELTS score of 7.0

Test Scores for Master of Finance Program.

- GMAT score of 600 or a GRE score of 310.
- An internet based TOEFL score of 85, a paper based TOEFL score of 600 or an IELTS score of 7.0

GRE tests scores may be waived on a case-by-case basis if students can show proof of successfully passing the following subjects: Calculus 1, Calculus II up to Integration, Linear Algebra and Statistics (Analisi Matematica and Geometria e Algebra)



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Application Deadlines and Contacts

- Application Deadline for Fall 2020 Semester is April 15th
- Visa Category for Degree Program = F1 Visa
- Primary Contact for Information: Dr. Vanita Misquita, Director of IIT Overseas Programs at misquita@iit.edu
- Questions about program content, contact Dr. Roland Calia at rcalia@stuart.iit.edu.
- PoliBa Coordinator: Prof. I. Giannoccaro



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DUAL DEGREE PLANS OF STUDY AT IIT STUART SCHOOL OF BUSINESS

Dual Degree Plans of Study

- The IIT Stuart graduate degrees require completion of 11 courses.
 - The dual degree format allows 2 or 3 of these courses to count toward completion of both graduate degrees.
- Minimum of 72 ECTS at PoliBa (1st year)
- Minimum of 21 credits (42 ECTS) at IIT (2nd year)
- The Master's thesis is conducted at IIT (6 credits) under joint supervision. It has to be written in English language and fulfill the requirements of the Poliba



Dual Degree Plan of Study: Management Engineering & Environmental Management

Courses Taken In Residence at PoliBa (72 ECTS)

Fall semester

- One course (6 ECTS = 3 credits)
- Information systems (12 ECTS = 6 credits)
- Innovation economics and management (12 ECTS = 6 credits)*
- Environmental management of production systems (6 ECTS = 3 credits)*

Spring semester

- Lean Production and Supply Chain Management (12 ECTS = 6 credits)
- Continuous Improvement of Sustainable Manufacturing (12 ECTS = = 6 credits)
- One course (6 ECTS = 3 credits)
- English II (3 ECTS)
- Tirocinio (3 ECTS)

* double counted



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Dual Degree Plan of Study: Management Engineering & Environmental Management

Courses Taken In Residence at IIT (48 ECTS = 24 credits)

Fall Semester:

- EMS 502: Environmental Law
- EMS 504: Industrial Ecology
- EMS 512: Environmental Risk Assessment

Spring Semester

- EMS 503: Environmental Pollution Control
- BUS 550 Business Analytics
- SMGT 529 - Social Entrepreneurship

Summer Semester

- EMS 597-01: Elective (Independent Study for thesis)
- EMS 597-02: Elective (Independent Study for thesis)



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Dual Degree Plan of Study: Management Engineering & Finance

Course Taken in Residence at PoliBa (72 ECTS)

Fall Semester (36 ECTS)

- Management Accounting (3 credits = 6 ECTS)*
- Business and sustainability (3 credits = 6 ECTS)*
- Information systems (6 credits = 12 ECTS)
- Finanza e Business Planning (6 credits = 12 ECTS)

Spring Semester (36 ECTS)

- Strategy and Management (3 credits = 6 ECTS)*
- Lean Production and Supply Chain Management or Continuous Improvement of Sustainable Manufacturing (6 credits = 12 ECTS)
- 2 courses (12 ECTS)
- English II (3 ECTS)
- Tirocinio (3 ECTS)

* double counted



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ILLINOIS INSTITUTE OF TECHNOLOGY

Dual Degree Plan of Study: Management Engineering & Finance

Fall Semester

- MSF 501 Mathematics with Financial Applications
- MSF 502 Statistical Analysis in Financial Markets
- MSF 503 Financial Modeling

Spring Semester

- MSF 504 Valuation and Portfolio Management
- MSF 505 Futures, Options and OTC Derivatives
- MSF 506 Financial Statement Analysis

Summer Semester

- MSF 597-01 Independent Study in Finance (Thesis)
- MSF 597-02 Independent Study in Finance (Thesis)



Stuart School of Business

ILLINOIS INSTITUTE OF TECHNOLOGY

Transcript of records

- Grading System

NJIT grade	Significance	Points	Poliba grade
A = 4.0	Excellent	93-100	30 – 30 e lode
B+ = 3.5	Good	84-92	27-29
B = 3.0	Acceptable	76-83	24-26
C+ = 2.5	Marginal Performance	68-75	21-23
C = 2.0	Minimum Performance	60-67	18-20



Tuition and costs

- Tuition fee: \$23,625
- **Additional costs:**
 - lodging/housing (on-campus to the extent available, or off-campus)
 - food (on-campus meal plans or food allowance)
 - health insurance fees
 - transportation;
 - use of refectories and canteens;
 - purchase of textbooks and other instructional materials and study aids



The logo for Cranfield University, featuring a large, dark blue, stylized letter 'C' that is open at the top and bottom. The text 'Cranfield University' is written in a dark blue, serif font, centered within the 'C'.

Cranfield
University



Structure

- First year at PoliBa (60 ECTS)
- Second year at Cranfield School of Engineering (60 ECTS)
 - Engineering and Management of Manufacturing Systems MSc
 - Management & Information Systems MSc

Engineering and Management of Manufacturing Systems MSc

	ECTS
General Management	3
Manufacturing Strategy	3
Management of Technology and Innovation	3
Manufacturing Systems Engineering	3
Operations Analysis	3
Enterprise Systems	3
Operations Management	3
Supply Chain Management	3
Group Project	12
Individual Thesis	24

Management & Information Systems MSc

Enterprise Systems	3
Operations Management	3
Business Process Analysis and Engineering	3
General Management	3
Business Change Management	3
Business Data Analytics	3
Enterprise Modelling	3
Programme and Project Management	3
Group project	12
Project Thesis	24

Requirements

- English score test
 - IELTS (International English Language Testing Service): Academic test - minimum overall score of 6.5
 - TOEFL (Test of English as a Foreign Language): Internet-based test - minimum score of 92. Our TOEFL institution code is 0822
 - Pearson Test of English (Academic): an overall score of 65
 - Cambridge English with a minimum score of 180
 - Trinity College London Integrated Skills in English III – Pass
- Copy certificate as evidence of bachelor degree in Engineering
- Two recommendations letters

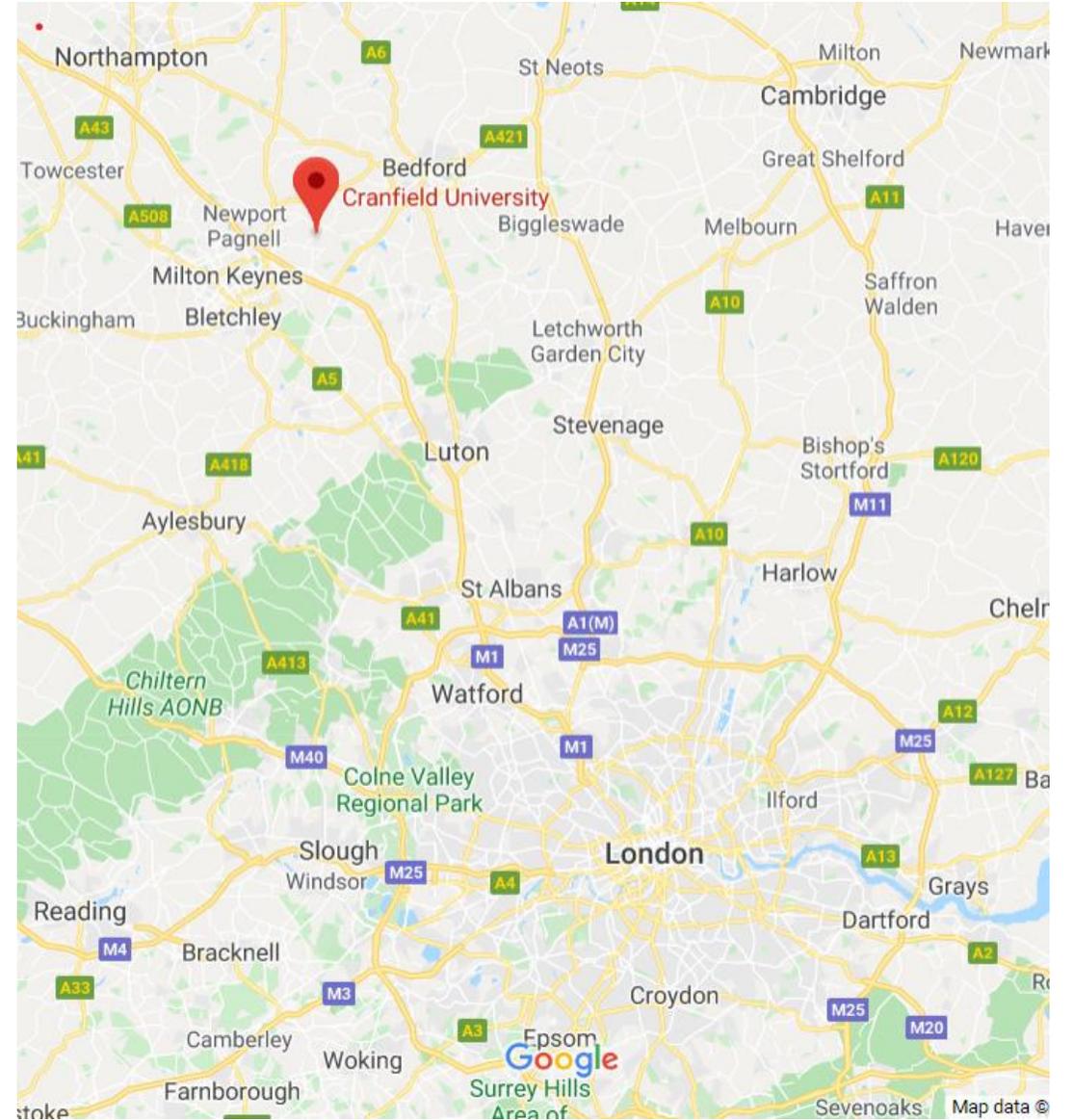
Fee and accomodations

- Tuitions: £ 10250
- Accomodations
 - <https://www.cranfield.ac.uk/study/life-on-campus/life-at-cranfield/accommodation>

Application and Contacts

- Dr. Fan Ip-Shing, Cranfield University
- Prof. Ilaria Giannoccaro, PoliBa

- Application deadline
 - February



Cranfield is:

- A postgraduate only science, technology, engineering and management university
- **A management school with strong industry links and a focus on applied learning**
- **One of an elite group of schools worldwide to hold the triple accreditation**
- Experts in personal development

Cranfield's masters programmes are designed for:

- Self-motivated graduates who want a real world business education
- Specialists who want to extend their skills set and knowledge
- Open-minded individuals who are committed to self-improvement
- Individuals that want to put knowledge into action



Structure

- First year at PoliBa (60 ECTS)
- Second year at Cranfield School of Management (60 ECTS)
 - Management MSc
<https://www.cranfield.ac.uk/som/masters-courses/management>
 - Logistics and Supply Chain Management MSc
<https://www.cranfield.ac.uk/som/masters-courses/logistics-and-supply-chain-management#>
 - Procurement and Supply Chain Management MSc
<https://www.cranfield.ac.uk/som/masters-courses/procurement-and-supply-chain-management>



Management MSc

Top-ranked management master's course

- 3rd in the UK and 30th in the world: The Economist Which MBA? Masters in Management (MiM) 2019 ranking
- 5th in the UK and 55th in the world: Financial Times Masters in Management 2018 ranking
- 6th in the UK and 28th in the world: QS World University Rankings: Management Masters Ranking 2020

Management MSc Programme

	Credits	ECTS
10 COMPULSORY	100	30
Marketing Management	10	3
Organisational Behaviour: Application	10	3
Accounting and Finance	10	3
People Management and Leadership	10	3
Economics for Managers	10	3
Managing Operations	10	3
Strategic Management	10	3
Management Consulting	10	3
Leading Corporate Sustainability	10	3
Evidence-Based Management	10	3
3 ELECTIVES	30	9
Organisational Performance: Direction Control and Measurement	10	3
Supply Chain Management	10	3
Disruptive Innovation	10	3
Entrepreneurship	10	3
Mastering Project Management	10	3
Effective Cross-Cultural Management	10	3
MASTER THESIS	90	27
TOT	220	66

27 = 18 Tesi + 6 tiroc + 3 Sovr



Logistics & SCM MSc Programme

	Credits	ECTS
10 COMPULSORY	100	30
Freight Transport	10	3
Inventory and Operations Management	10	3
Information Systems and e-Business	10	3
Project Management Introduction	10	3
Physical Network Design	10	3
Warehousing	10	3
Business Process Outsourcing	10	3
Designing and Managing Resilient Supply Chains	10	3
Logistics Outsourcing	10	3
Planning and Resourcing Road Freight Transport	10	3
4 ELECTIVES	20	6
Humanitarian Logistics	5	1.5
Simulation	5	1.5
Six Sigma	5	1.5
Performance Measurement in the Supply Chain	5	1.5
Sales and Operations Planning	5	1.5
Retail Logistics	5	1.5
Social Network Analysis in a Supply Chain Context	5	1.5
Business Model Generation	5	1.5
Future of Digital Procurement	5	1.5
Big Data Analytics for Supply Chain Management	5	1.5
Circular Supply Chains	5	1.5
MASTER THESIS	80	24
TOT	200	60



Procurement & SCM MSc Programme

	Credits	ECTS
10 COMPULSORY	100	30
Principles of Strategic Procurement	10	3
Supply Chain Strategy and Sustainability	10	3
Accounting and Finance	10	3
Analytical Techniques for Supply Chain Management	10	3
Freight Transport	10	3
Inventory and Operations Management	10	3
Information Systems and e-Business	10	3
Project Management Introduction	10	3
Supplier Selection and Evaluation	10	3
Negotiation and Contract Management	10	3
4 ELECTIVES	20	6
Business Process Outsourcing	5	1.5
Designing and Managing Resilient Supply Chains	5	1.5
Logistics Outsourcing	5	1.5
Planning and Resourcing Road Freight Transport	5	1.5
Humanitarian Logistics	5	1.5
Simulation	5	1.5
Six Sigma	5	1.5
Performance Measurement in the Supply Chain	5	1.5
Sales and Operations Planning	5	1.5
Retail Logistics	5	1.5
Social Network Analysis in a Supply Chain Context	5	1.5
Business Model Generation	5	1.5
Future of Digital Procurement	5	1.5
Big Data Analytics for Supply Chain Management	5	1.5
Circular Supply Chains	5	1.5
MASTER THESIS	80	24
TOT	200	60

MSc Entry Requirements

English score test

- IELTS (International English Language Testing Service): Academic test - minimum overall score of 6.5 (**NB: 7.0 for MSc Management**)
- TOEFL (Test of English as a Foreign Language): Internet-based test - minimum score of 92. Our TOEFL institution code is 0822
- Pearson Test of English (Academic): an overall score of 65
- Cambridge English with a minimum score of 180
- Trinity College London Integrated Skills in English III – Pass

Copy certificate as evidence of bachelor degree in Engineering

Two recommendation letters

MSc Tuition Fees (2020/21)

Cranfield Tuition Fees (*with PoliBa 25% double degree discount)	UK/EU*	Overseas*
MSc Management	£11,250	£19,500
MSc Logistics & SCM	£9,750	£18,375
MSc Procurement & SCM	£9,750	£18,375

Offerta Double Degree con NJIT

Corso di Studio
Laurea Magistrale in Ingegneria
Meccanica LM-33

DMMM – Politecnico di Bari

Double degree Program Poliba-NJIT

- **Degrees from two universities**
 - **Poliba:** M. Sc. in Mechanical Engineering
 - **NJIT:** M. Sc. in Mechanical Engineering
- **Structure of program**
 - Minimum of 78 ECTS at PoliBa
 - Minimum of 21 credits (42 ECTS) at NJIT

Structure

- **Poliba (78 ECTS)**
 - Lectures (63 ECTS)
 - English II (3 ECTS)
 - Master thesis (12 ECTS)
- **NJIT (42 ECTS) (+ 18 ECTS double counted)**
 - 1° semester
 - 5 courses + master project
 - 2° semester at Poliba
 - 1 on-line course + master project
 - or 2° semester at NJIT
 - 1 course + master project

NJIT program

- Four focus areas
 - *CAD/CAM, Mechanisms & Control*
 - *Thermo-Fluid Systems ad Energy*
 - *Mechanics and Material Processing*
 - *Robotics and Biomechanical*

List of possible courses

Mechanism Design: Analysis and Synthesis

Advanced Mechanism Design

Computer Aided Engineering

Kinematics of Spatial Mechanisms

Introduction to Modern Control Methods

Advanced Thermodynamics

Mechanics of Viscous Fluids

Non-Newtonian Fluid Dynamics

Principles of Particulate Multiphase Flows

Engineering Design for Plastic Products

Polymer processing Techniques

Advanced Mechanics of Material

Finite Element Methods in Mechanical Engineering

Microlevel Modeling in Particle Technology

Introduction to Robotics

Advanced topics in Robotics

Analytical Methods in Machine Design

Introduction to Biomechanical engineering

Renewable energy systems

Requirements

- **Admission requirements**

- Enrollment in M. Sc. Mechanical Engineering
- **At least 18 ECTS at the time of application and 48 ECTS before the departure to the US**
- Language certificate: at least B2 level

- **Learning agreement**

- The student must prepare a plan of didactic activity (learning agreement), using the ERASMUS+ learning agreement format
- It must be coordinated with the program coordinator and approved by the DMMM Board

Transcript of records

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- **Grading System**

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Tuition and costs

- **Tuition and fees**
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- **Additional costs:**
 - lodging/housing (on-campus to the extent available, or off-campus)
 - food (on-campus meal plans or food allowance)
 - health insurance fees
 - transportation;
 - use of refectories and canteens;
 - purchase of textbooks and other instructional materials and study aids

Contacts

- Poliba Coordinator: Prof. Marco Torresi
- NJIT Coordinator: Ji, Zhiming (<mailto:zhiming.ji@njit.edu>)